

46280 WASHINGTON STATE DEPARTMENT OF PERSONNEL

Specification for Class of

ENERGY ENGINEER 3

**Abolished Initially Effective January 13, 2006**

**Abolished Final Effective February 10, 2006**

Definition: As a licensed professional engineer, provides technical energy assistance to schools, State facilities, and local government facilities for the Department of General Administration. Reviews the work of engineers who have not achieved registration as a licensed professional engineer. Make final engineering decisions.

Typical Work

Provides technical engineering support for various projects; investigates potential causes for discrepancies between metered and predicted energy consumption; evaluates building operations and maintenance; assesses accuracy of technical assistance studies;

Reviews and provides initial approval for technical assistance reports, energy conservation reports, and design documents including specifications and drawings, prepared for conservation retrofit measures;

Coordinates independent studies of building energy conservation characteristics; provides recommendations covering cost estimates;

Inspects buildings during installation and after completion of energy retrofit measures; conducts inspections to ensure compliance with design drawings, specifications, and contracts;

Advises architects, engineers, and institutional representatives regarding requirements for conservation programs;

Provides technical engineering guidance and assistance in writing on energy conservation specification for incorporation into the school district's building specifications;

Conducts engineering analysis of the performance of energy conservation measures in facilities served by agency programs;

Administers contracts with consulting firms and other to include overseeing and reviewing the contractor's work

Reviews technical studies, analysis of utility records, interviews with facility personnel, audits of the facility, and the use of

energy analysis programs and calculations to evaluate energy performance;

Performs other work as required.

#### Knowledge and Abilities

Knowledge of: principles, practices and methods of engineering, including structures, lighting, controls, HVAC, and glazing; energy efficient improvements; research methods and problem-solving techniques; and principles and techniques of energy management.

Ability to: use sound independent judgement on difficult engineering problems; understand written and oral directions; interpret plans, drawings, specifications; deal tactfully with client groups.

#### Minimum Qualifications

Bachelor's degree in civil, mechanical, electrical, or other accredited engineering curriculum.

#### AND

Three years of professional level experience performing energy engineering or related work.

#### AND

Registration as a professional engineer in the State of Washington or another state based on registration requirements equivalent to those in Washington.

An Engineer-In-Training certificate will substitute for education.

NOTE: Requirements for professional registration as an engineer in the State of Washington are eight years of professional experience (which may include up to four years of college-level engineering education) and successful completion of sixteen hours of professional licensing exams. Applicants qualifying through the licensing equivalency option must achieve professional registration as an engineer in the State of Washington within six months of appointment to this class.

New class: 12-15-89

Revised minimum qualifications: 11-15-91

Revised definition: 5-9-01